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09/676,645	09/29/2000	Makoto Yamada	450100-02736	3220
20999 FROMMER I	7590 12/04/2007 AWRENCE & HAUG		EXAMINER	
745 FIFTH AV	/ENUE- 10TH FL.		NGUYEN, HUY THANH	
NEW YORK,	NY 10151		ART UNIT PAPER NUMBE	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)
Office Action Summary		09/676,645	YAMADA ET AL.
		Examiner	Art Unit
		HUY T. NGUYEN	2621
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet with the	
A SH WHIC - Exte after - If NC - Failu Any	IORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DATES and the may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Depriod for reply is specified above, the maximum statutory period warre to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION ATE OF THIS COMMUNICA	ON. timely filed om the mailing date of this communication. NED (35 U.S.C. 8 133)
Status			
	•	action is non-final. nce except for formal matters, p	
Disposit	ion of Claims		
5)	Claim(s) 1-16 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-16 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or is/are subject to restriction and/or is/are subject to by the Examiner The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the or Replacement drawing sheet(s) including the correction of the oath or declaration is objected to by the Examiner The oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner Capture of the oath or declaration is objected to by the Examiner of the oath or declaration is objected to by the Examiner of the oath or declaration is objected to by the Examiner of the oath or declaration is objected to be objected to be objected to be objected to by the Examiner of the oath of t	election requirement. c. epted or b) objected to by the drawing(s) be held in abeyance. So	ee 37 CFR 1.85(a). objected to. See 37 CFR 1.121(d).
Priority ι	ınder 35 U.S.C. § 119		
12) [a)[Acknowledgment is made of a claim for foreign All b) Some * c) None of: 1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prioric application from the International Bureau see the attached detailed Office action for a list of	have been received. have been received in Applica ty documents have been received (PCT Rule 17.2(a)).	ition Noved in this National Stage
Attachmen		•	
2)	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	4) Interview Summar Paper No(s)/Mail [5) Notice of Informal 6) Other:	Date

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DETAILED ACTION

Claim Objections

1. Claims 1,2,3 and 9-14 are objected to because of the following informalities: See examiner comment. Appropriate correction is required.

Before "memory", the last two line of claims 1,2,3,9,10,11,12,13and 14 should be inserted —a--.

Claim Rejections - 35 USC § 112

2. Claims 1-16 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 1,2,3,9,10,11,12,13 and 14 the recitation "the data is intermittently from memory " is unclear since there is no prior recitation of storing or writing the data in a memory.

In claims 1,2,3 and 9-14, the recitation "data that can written without a jump operation" is unclear. Is the data written on the medium or a memory?

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

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Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

4. Claims 1-5, 7 and 9-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hisatomi et al (6,263,152) in view of Inai (JP 09288677 A, US 6,055,565, is a family member of JP 09288677 A and is used as English translation for JP 09288677 A) and Yonemitsu et al (EP 0858171 A2).

Regarding claim 1, Hisatomi discloses a recording apparatus (Fig. 15) for recording video data and audio data to a writable optical disc (DVD-RAM), comprising:

encoding means (53) for encoding video data corresponding to a compressionencoding process (column 12, lines 30-51, column 15, lines 35-52);

converting means for converting the data structure of the encoded video data received from said encoding means into a file structure that allows a moving picture to be synchronously reproduced (Fig. 24, column 16, lines 19-38);

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recording means for recording data having the file structure to an optical disc, wherein the file structure has a first data unit (sector or pack) and a second data unit (object unit) (Fig.13), and wherein the first unit second data unit are matched with a successive record length (pack unit length and object unit length Fig. 13 and Fig. 24) which data is written to the optical disc; and

reproducing means for synchronously reproducing the audio data and moving picture (column 16, lines 19-38).

Hisatomi further teaches each second data unit adjacent to the first data unit (a object unit adjacent to a pack unit of other object unit, Fig. 13)

Hisatomi fails to specifically teach that the moving picture and/or audio signal are synchronously reproduced by a computer software without need to use especially dedicated hardware. Inai teaches—using a computer software—to—synchronously reproduced the moving picture and audio—without need to use specially dedicated hardware (column 10, lines 3-40, column 11, lines 1-20). Therefore—it would have been obvious to one of ordinary in the at to modify Hisatomi with Inai—by using computer software—as—taught by Inai—with the—optical disc of—Hisatomi—to—synchronously reproducing—the moving or audio data the enhancing data structure—file—use—with a computer that—do not have—specifically dedicated decoding hardware—

Hisatomi as modified with Inai fails to specifically teach that the encoding rate is lower than a transfer rate when the data is read, and recording on the medium

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Yonemitsu teaches a recording apparatus in which having a rate control means for intermittently read the data and the data having rate higher than encoding rate and recording the read data on a medium in order to improve the quality of the data due to condition of the apparatus (page 4, lines 50-55, page 5, lines 1-15). It would have been obvious to one of ordinary skill in the art to modify Hisatomi as modified with Inai with Yonemitsu by using a rate control means with the apparatus of Hisatomi as modified with Inai for controlling the rate of the read data thereby improving the quality of the data.

Further for claim 2, Hisatomi a further teaches converting the audio data into the file structure (column 12, lines 40-41).

Further for claim 3, Hisatomi further teaches the video encoding means for encoding video data corresponding to a compression-encoding process in a combination of an inter-frame predictive encoding process and a motion compensating process that allow a plurality of frames are structured as a group (MPEG encoding, (column 12, lines 30-51, column 15, lines 35-52);

audio output means (54) for outputting audio data that has been compressionencoded or non-compressed (column 12, lines 40-51);

multiplexing means (56) for converting the data structure of the encoded video data received from said encoding means and the data structure of the audio data received from said audio output means into respective file structures (Fig. 24, column 13, lines 1-3, lines 30-58) that allow a moving picture to be synchronously reproduced

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Regarding claim 4, Hisatomi further teaches that in the multiplexed data, the duration of the encoded video data of the second data unit is almost equal to the duration of the audio data of the second data unit since the video pack has equal bytes with the audio pack (column 13, lines 44-50).

Regarding claim 5, Hisatomi further teaches that wherein in the multiplexed data, the encoded video data of the second data unit and audio data of the second data unit are alternately arranged, and wherein a plurality of sets of the encoded video data of the second data unit and the audio data of the second data unit are matched with the successive record length since each object unit comprise a plurality of video sets and audio sets (Figs. 5, 24).

Method claims 9-11 corresponds to apparatus claims 1-3, therefore method claims 9-11 are rejected by the same reason as applied to apparatus claims 1-3.

Further for claims 12-14, Hisatomi as modified with Inai further a medium having a program read by a computer for performing the steps being recited in claims 12-14 correspond to apparatus claims 1-3 since. Hisatomi teaches using a program used with a computer or processor to perform the steps of encoding, formatting and recording the moving picture and /or audio data (Figs. 17 and 19) and Inai teaches using a computer software for synchronously reproducing the moving picture and audio data (column 10, line 30 to column 11, line 20).

Regarding claims 7 and 16, Hisatomi further teaches that the file structure further includes a data portion that describes management information, and wherein the

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data portion describes the number of the second data units (object number) contained in the successive record length (Figs. 25,28 and 29).

5. Claims 6 and 15 are rejected under 35 U.S.C. 103(a) as being unpatentable over Hisatomi et al (6,263,152) in view of Inai (JP 09288677 A, US 6,055,565, is a family member of JP 09288677 A and is used as English translation for JP 09288677 A) and Yonemitsu et al (EP 0858171 A2) as applied to claim 1 above, further in view of Kanota et al (6,813,681).

Regarding claims 6 and 15, Hisatomi as modified with Inai fails to teach that the audio the audio data is compression-encoded corresponding to ATRAC, and wherein the first data unit of the file structure contains one or a plurality of sound units.

Kanota teaches means for compression—encoded audio data to ATRAC units (column 11, lines 47-53). It would have been obvious to one of ordinary skill in the art to modify Hisatomi with Kanota by using a ATRAC audio compressing mean as taught by Kanota with the apparatus of Hisatomi as an alternative to the encoding means of Hisatomi for compression—encoding the audio data.

6. Claim 8 is rejected under 35 U.S.C. 103(a) as being unpatentable over Hisatomi et al (6,263,152) in view of Inai (JP 09288677 A, US 6,055,565, is a family member of JP 09288677 A and is used as English translation for JP 09288677 A) and Yonemitsu et al (EP 0858171 A2) as applied to claim 1 above, further in view of Kikuchi et al (6,570,837).

Regarding claim 8, Hisatomi further teaches that the file structure further includes a data portion that describes management information and the data portion describes a flag and the number of sets contained in the successive record length (Figs. 13, 25,28 but fails to specifically teaches that the flag representing whether or not sets of encoded video data and audio data of the second data unit have been recorded in the data portion.

Kikuchi teaches using flags in a management for indicating whether or not a set of information is recorded on a medium (fig. 7, column 9, lines 55-65). Therefore, it would have been obvious to one of ordinary skill in the art to modify Hisatomi as modified with Inai with Kikuchi by using flags with the data portion to indicate whether or not the video or audio units are recorded in the portion of a medium in order to accurately accessing the video or audio data.

Response to Arguments

7. Applicant's arguments filed 04 October 2007 have been fully considered but they are not persuasive.

Applicant argues that Yonemitsu does not teach the read data are successively written to the medium. In response, the examiner disagrees. It is noted that at page 5, lines 1-15, Yonemitsu teaches that the data read from a memory with a rate that is higher than the encoding rate are successively written to a medium.

Conclusion

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8. **THIS ACTION IS MADE FINAL.** Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to HUY T. NGUYEN whose telephone number is (571) 272-7378. The examiner can normally be reached on 8:30AM -6:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John W. Miller can be reached on (571) 272-7353. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

H.N

HUY JAWEN PRIMZY EXAMNER